













Machine Learning for Materials Hard and Soft ESI-DCAFM-TACO_VDSP Summer School 2022

Schedule – Week 1

	Mon, 11 Jul	Tue, 12 Jul	Wed, 13 Jul	Thu, 14 Jul
09.00	"Mathematical Introduction I" Philipp Grohs University of Vienna	"Mathematical Introduction II" Philipp Grohs University of Vienna	"Image Analysis" Thomas Pock TU Graz	"ML for electronic structure" James Spencer & David Pfau Deep Mind
10.30	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11.00	"Mathematical Introduction I" Philipp Grohs University of Vienna	"Mathematical Introduction II" Philipp Grohs University of Vienna	"Image Analysis" Thomas Pock TU Graz	"ML for electronic structure" James Spencer & David Pfau Deep Mind
12.30	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00 - 17.00	Tutorial Philipp Grohs University of Vienna	Tutorial Philipp Grohs University of Vienna	Tutorial Thomas Pock TU Graz	Tutorial James Spencer & David Pfau Deep Mind
17.00	Welcome reception			

	Fri, 15 Jul			
09.00	Bingqing Cheng Institute of Science and Technology Austria (ISTA)			
09:45	Andrew Ferguson University of Chicago			
10.30	Coffee Break			
11.00	Marjolein Dijkstra University of Utrecht			
11.45	"AI Case Studies" Marine Pigneur (MLR GmbH) Christopher Lepenik (Image Biopsy Lab) Christian Leitold (Verbund) Bhuiyan S.M. Ebna-Hai (Fehrmann)			
12.45	AI Lunch			
14.30	Milica Todorovic University of Turku			
15.15	Reinhard Maurer University of Warwick			
16.00	Roberto Covino Frankfurt Institute for Advanced Studies (FIAS)			















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Schedule – Week 2

	Mon, 18 Jul	Tue, 19 Jul	Wed, 20 Jul	Thu, 21 Jul	Fri, 22 Jul
09.00	"ML potentials" Philipp Marquetand University of Vienna	"ML potentials" Philipp Marquetand University of Vienna	"Statistical Sampling" Peter Wirnsberger Deep Mind	"Free energies and enhanced sampling" Luigi Bonati ETH Zurich & IIT Genova	"Materials properties prediction" Taylor D. Sparks University of Utah
10.30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11.00	"ML potentials" Philipp Marquetand University of Vienna	"ML potentials" Philipp Marquetand University of Vienna	"Statistical Sampling" Peter Wirnsberger Deep Mind	"Free energies and enhanced sampling" Luigi Bonati ETH Zurich & IIT Genova	"Materials properties prediction" Taylor D. Sparks University of Utah
12.30	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Closing Remarks
14.00 - 17.00	Tutorial Philipp Marquetand University of Vienna	Tutorial Philipp Marquetand University of Vienna	Tutorial Peter Wirnsberger Deep Mind	Tutorial Luigi Bonati ETH Zurich & IIT Genova	
18.00		Social Dinner			